

Abstract

A sensor assembly and coupling arrangement for a rotary disk refiner. The sensor assembly includes a housing formed by a base and frustoconical cap that has a sensing element carrying bulb extending outwardly therefrom. The coupling arrangement includes a conduit arrangement that is received in one or more aligned preexisting instrument ports of the refiner and that releasably couples with a connector puck. The puck is carried by the backside of a refiner disk segment that lies next to the refiner disk segment that is equipped with one or more sensor assemblies. Preferably, a flexible hose communicates sensor wiring from a sensor manifold that holds a plurality of sensor assemblies to the connector puck. The sensor manifold preferably is carried by the backside of the sensor refiner disk.